PCT09

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/926,009

DATE: 02/07/2002
TIME: 10:00:57

Input Set : A:\PTO.VSK.txt
Output Set: N:\CRF3\02072002\I926009.raw

ENTERED

```
       3 <110> APPLICANT: Curstedt, Tore
       4        Johansson, Jan
       5        Jornvall, Hans
       6        Robertson, Bengt
       7        Ventura, Paolo
       9 <120> TITLE OF INVENTION: Artificial peptides having surface activity and the use
thereof in the
      10        preparation of artificial surfactant
      12 <130> FILE REFERENCE: 211596US-3591-4158-0-PCT
C--> 14 <140> CURRENT APPLICATION NUMBER: US/09/926,009
C--> 15 <141> CURRENT FILING DATE: 2001-12-11
      17 <150> PRIOR APPLICATION NUMBER: IT MI99A000275
      18 <151> PRIOR FILING DATE: 1999-02-12
      20 <160> NUMBER OF SEQ ID NOS: 14
      22 <170> SOFTWARE: PatentIn version 3.1
      24 <210> SEQ ID NO: 1
      25 <211> LENGTH: 101
      26 <212> TYPE: PRT
      27 <213> ORGANISM: ARTIFICIAL SEQUENCE
      29 <220> FEATURE:
      30 <223> OTHER INFORMATION: SYNTHETIC PEPTIDE
      32 <220> FEATURE:
      33 <221> NAME/KEY: MISC_FEATURE
      34 <222> LOCATION: (1)..(1)
      35 <223> OTHER INFORMATION: X = Phe and may or may not be present
      38 <220> FEATURE:
      39 <221> NAME/KEY: MISC_FEATURE
      40 <222> LOCATION: (2)..(2)
      41 <223> OTHER INFORMATION: X = Gly and may or may not be present
      44 <220> FEATURE:
      45 <221> NAME/KEY: MISC_FEATURE
      46 <222> LOCATION: (5)..(5)
      47 <223> OTHER INFORMATION: X = Ser, Cys, Phe where Ser and Cys are optionally linked bia
est
      48        er or thio-ester bonds with acyl groups containing 12 to 22 carb
      49        ons atoms linked
      52 <220> FEATURE:
      53 <221> NAME/KEY: MISC_FEATURE
      54 <222> LOCATION: (6)..(6)
      55 <223> OTHER INFORMATION: X = Ser, Cys, Phe where Ser and Cys are optionally linked bia
est
      56        er or thio-ester bonds with acyl groups containing 12 to 22 carb
      57        ons atoms linked
      60 <220> FEATURE:
```

```
61 <221> NAME/KEY: MISC_FEATURE
62 <222> LOCATION: (13)..(13)
```

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/926,009

DATE: 02/07/2002
TIME: 10:00:57

Input Set : A:\PTO.VSK.txt
Output Set: N:\CRF3\02072002\I926009.raw

```
 63 <223> OTHER INFORMATION: X = Val, Leu, Ile or Nle and may or may not be present
 66 <220> FEATURE:
 67 <221> NAME/KEY: MISC_FEATURE
 68 <222> LOCATION: (14)..(14)
 69 <223> OTHER INFORMATION: X = Val, Leu, Ile or Nle and may or may not be present
 72 <220> FEATURE:
 73 <221> NAME/KEY: MISC_FEATURE
 74 <222> LOCATION: (15)..(15)
 75 <223> OTHER INFORMATION: X = Val, Leu, Ile or Nle and may or may not be present
 78 <220> FEATURE:
 79 <221> NAME/KEY: MISC_FEATURE
 80 <222> LOCATION: (16)..(16)
 81 <223> OTHER INFORMATION: X = Val, Leu, Ile or Nle and may or may not be present
 84 <220> FEATURE:
 85 <221> NAME/KEY: MISC_FEATURE
 86 <222> LOCATION: (17)..(17)
 87 <223> OTHER INFORMATION: X = Val, Leu, Ile or Nle and may or may not be present
 90 <220> FEATURE:
 91 <221> NAME/KEY: MISC_FEATURE
 92 <222> LOCATION: (18)..(18)
 93 <223> OTHER INFORMATION: X = Val, Leu, Ile or Nle and may or may not be present
 96 <220> FEATURE:
 97 <221> NAME/KEY: MISC_FEATURE
 98 <222> LOCATION: (19)..(19)
 99 <223> OTHER INFORMATION: X = Val, Leu, Ile or Nle and may or may not be present
102 <220> FEATURE:
103 <221> NAME/KEY: MISC_FEATURE
104 <222> LOCATION: (20)..(20)
105 <223> OTHER INFORMATION: X = Val, Leu, Ile or Nle and may or may not be present
108 <220> FEATURE:
109 <221> NAME/KEY: MISC_FEATURE
110 <222> LOCATION: (21)..(21)
111 <223> OTHER INFORMATION: X = Val, Leu, Ile or Nle and may or may not be present
114 <220> FEATURE:
115 <221> NAME/KEY: MISC_FEATURE
116 <222> LOCATION: (22)..(22)
117 <223> OTHER INFORMATION: X = Val, Leu, Ile or Nle and may or may not be present
120 <220> FEATURE:
121 <221> NAME/KEY: MISC_FEATURE
122 <222> LOCATION: (23)..(23)
123 <223> OTHER INFORMATION: X = Val, Leu, Ile or Nle and may or may not be present
126 <220> FEATURE:
127 <221> NAME/KEY: MISC_FEATURE
128 <222> LOCATION: (24)..(24)
129 <223> OTHER INFORMATION: X = Val, Leu, Ile or Nle and may or may not be present
132 <220> FEATURE:
133 <221> NAME/KEY: MISC_FEATURE
134 <222> LOCATION: (25)..(25)
135 <223> OTHER INFORMATION: X = Val, Leu, Ile or Nle and may or may not be present
```

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/926,009

DATE: 02/07/2002
TIME: 10:00:57

Input Set : A:\PTO.VSK.txt
Output Set: N:\CRF3\02072002\I926009.raw

```
138 <220> FEATURE:
139 <221> NAME/KEY: MISC_FEATURE
140 <222> LOCATION: (26)..(26)
141 <223> OTHER INFORMATION: X = Val, Leu, Ile or Nle and may or may not be present
144 <220> FEATURE:
145 <221> NAME/KEY: MISC_FEATURE
146 <222> LOCATION: (27)..(27)
147 <223> OTHER INFORMATION: X = Val, Leu, Ile or Nle and may or may not be present
150 <220> FEATURE:
151 <221> NAME/KEY: MISC_FEATURE
152 <222> LOCATION: (28)..(28)
153 <223> OTHER INFORMATION: X = Val, Leu, Ile or Nle and may or may not be present
156 <220> FEATURE:
157 <221> NAME/KEY: MISC_FEATURE
158 <222> LOCATION: (29)..(29)
159 <223> OTHER INFORMATION: X = Val, Leu, Ile or Nle and may or may not be present
162 <220> FEATURE:
163 <221> NAME/KEY: MISC_FEATURE
164 <222> LOCATION: (30)..(30)
165 <223> OTHER INFORMATION: X = Val, Leu, Ile or Nle and may or may not be present
168 <220> FEATURE:
169 <221> NAME/KEY: MISC_FEATURE
170 <222> LOCATION: (31)..(31)
171 <223> OTHER INFORMATION: X = Val, Leu, Ile or Nle and may or may not be present
174 <220> FEATURE:
175 <221> NAME/KEY: MISC_FEATURE
176 <222> LOCATION: (32)..(32)
177 <223> OTHER INFORMATION: X = Val, Leu, Ile or Nle and may or may not be present
180 <220> FEATURE:
181 <221> NAME/KEY: MISC_FEATURE
182 <222> LOCATION: (34)..(34)
183 <223> OTHER INFORMATION: X = Val, Leu, Ile or Nle and may or may not be present
186 <220> FEATURE:
187 <221> NAME/KEY: MISC_FEATURE
188 <222> LOCATION: (35)..(35)
189 <223> OTHER INFORMATION: X = Val, Leu, Ile or Nle and may or may not be present
192 <220> FEATURE:
193 <221> NAME/KEY: MISC_FEATURE
194 <222> LOCATION: (36)..(36)
195 <223> OTHER INFORMATION: X = Val, Leu, Ile or Nle and may or may not be present
198 <220> FEATURE:
199 <221> NAME/KEY: MISC_FEATURE
200 <222> LOCATION: (37)..(37)
201 <223> OTHER INFORMATION: X = Val, Leu, Ile or Nle and may or may not be present
204 <220> FEATURE:
205 <221> NAME/KEY: MISC_FEATURE
206 <222> LOCATION: (38)..(38)
207 <223> OTHER INFORMATION: X = Val, Leu, Ile or Nle and may or may not be present
210 <220> FEATURE:
```

```
211 <221> NAME/KEY: MISC_FEATURE
212 <222> LOCATION: (39)..(39)
213 <223> OTHER INFORMATION: X = Val, Leu, Ile or Nle and may or may not be present
216 <220> FEATURE:
217 <221> NAME/KEY: MISC_FEATURE
218 <222> LOCATION: (40)..(40)
219 <223> OTHER INFORMATION: X = Val, Leu, Ile or Nle and may or may not be present
222 <220> FEATURE:
223 <221> NAME/KEY: MISC_FEATURE
224 <222> LOCATION: (41)..(41)
225 <223> OTHER INFORMATION: X = Val, Leu, Ile or Nle and may or may not be present
228 <220> FEATURE:
229 <221> NAME/KEY: MISC_FEATURE
230 <222> LOCATION: (42)..(42)
231 <223> OTHER INFORMATION: X = Val, Leu, Ile or Nle and may or may not be present
234 <220> FEATURE:
235 <221> NAME/KEY: MISC_FEATURE
236 <222> LOCATION: (43)..(43)
237 <223> OTHER INFORMATION: X = Val, Leu, Ile or Nle and may or may not be present
240 <220> FEATURE:
241 <221> NAME/KEY: MISC_FEATURE
242 <222> LOCATION: (44)..(44)
243 <223> OTHER INFORMATION: X = Val, Leu, Ile or Nle and may or may not be present
246 <220> FEATURE:
247 <221> NAME/KEY: MISC_FEATURE
248 <222> LOCATION: (45)..(45)
249 <223> OTHER INFORMATION: X = Val, Leu, Ile or Nle and may or may not be present
252 <220> FEATURE:
253 <221> NAME/KEY: MISC_FEATURE
254 <222> LOCATION: (46)..(46)
255 <223> OTHER INFORMATION: X = Val, Leu, Ile or Nle and may or may not be present
258 <220> FEATURE:
259 <221> NAME/KEY: MISC_FEATURE
260 <222> LOCATION: (47)..(47)
261 <223> OTHER INFORMATION: X = Val, Leu, Ile or Nle and may or may not be present
264 <220> FEATURE:
265 <221> NAME/KEY: MISC_FEATURE
266 <222> LOCATION: (48)..(48)
267 <223> OTHER INFORMATION: X = Val, Leu, Ile or Nle and may or may not be present
270 <220> FEATURE:
271 <221> NAME/KEY: MISC_FEATURE
272 <222> LOCATION: (49)..(49)
273 <223> OTHER INFORMATION: X = Val, Leu, Ile or Nle and may or may not be present
276 <220> FEATURE:
277 <221> NAME/KEY: MISC_FEATURE
278 <222> LOCATION: (50)..(50)
279 <223> OTHER INFORMATION: X = Val, Leu, Ile or Nle and may or may not be present
282 <220> FEATURE:
283 <221> NAME/KEY: MISC_FEATURE
```

RAW SEQUENCE LISTING   DATE: 02/07/2002
PATENT APPLICATION: US/09/926,009   TIME: 10:00:57

Input Set : A:\PTO.VSK.txt
Output Set: N:\CRF3\02072002\I926009.raw

```
284 <222> LOCATION: (51)..(51)
285 <223> OTHER INFORMATION: X = Val, Leu, Ile or Nle and may or may not be present
288 <220> FEATURE:
289 <221> NAME/KEY: MISC_FEATURE
290 <222> LOCATION: (52)..(52)
291 <223> OTHER INFORMATION: X = Val, Leu, Ile or Nle and may or may not be present
294 <220> FEATURE:
295 <221> NAME/KEY: MISC_FEATURE
296 <222> LOCATION: (54)..(54)
297 <223> OTHER INFORMATION: X = Val, Leu, Ile or Nle and may or may not be present
300 <220> FEATURE:
301 <221> NAME/KEY: MISC_FEATURE
302 <222> LOCATION: (55)..(55)
303 <223> OTHER INFORMATION: X = Val, Leu, Ile or Nle and may or may not be present
306 <220> FEATURE:
307 <221> NAME/KEY: MISC_FEATURE
308 <222> LOCATION: (56)..(56)
309 <223> OTHER INFORMATION: X = Val, Leu, Ile or Nle and may or may not be present
312 <220> FEATURE:
313 <221> NAME/KEY: MISC_FEATURE
314 <222> LOCATION: (57)..(57)
315 <223> OTHER INFORMATION: X = Val, Leu, Ile or Nle and may or may not be present
318 <220> FEATURE:
319 <221> NAME/KEY: MISC_FEATURE
320 <222> LOCATION: (58)..(58)
321 <223> OTHER INFORMATION: X = Val, Leu, Ile or Nle and may or may not be present
324 <220> FEATURE:
325 <221> NAME/KEY: MISC_FEATURE
326 <222> LOCATION: (59)..(59)
327 <223> OTHER INFORMATION: X = Val, Leu, Ile or Nle and may or may not be present
330 <220> FEATURE:
331 <221> NAME/KEY: MISC_FEATURE
332 <222> LOCATION: (60)..(60)
333 <223> OTHER INFORMATION: X = Val, Leu, Ile or Nle and may or may not be present
336 <220> FEATURE:
337 <221> NAME/KEY: MISC_FEATURE
338 <222> LOCATION: (61)..(61)
339 <223> OTHER INFORMATION: X = Val, Leu, Ile or Nle and may or may not be present
342 <220> FEATURE:
343 <221> NAME/KEY: MISC_FEATURE
344 <222> LOCATION: (62)..(62)
345 <223> OTHER INFORMATION: X = Val, Leu, Ile or Nle and may or may not be present
348 <220> FEATURE:
349 <221> NAME/KEY: MISC_FEATURE
350 <222> LOCATION: (63)..(63)
351 <223> OTHER INFORMATION: X = Val, Leu, Ile or Nle and may or may not be present
354 <220> FEATURE:
355 <221> NAME/KEY: MISC_FEATURE
356 <222> LOCATION: (64)..(64)
```

Use of n and/or Xaa has been detected in the Sequence Listing.
Review the Sequence Listing to insure a corresponding
explanation is presented in the <220> to <223> fields of
each sequence using n or Xaa.

```
        VERIFICATION SUMMARY                  DATE: 02/07/2002
        PATENT APPLICATION:  US/09/926,009    TIME: 10:00:58

        Input Set : A:\PTO.VSK.txt
        Output Set: N:\CRF3\02072002\I926009.raw

L:14 M:270 C: Current Application Number differs, Replaced Current Application Number
L:15 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:570 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:574 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:578 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:582 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:586 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:590 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:710 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2
L:714 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2
L:828 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:832 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:946 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4
L:950 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4
L:1064 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5
L:1068 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5
L:1182 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6
L:1186 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6
```